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## The Honeycomb of Engineering

Senay Purzer

*Purdue University*, [purzer@purdue.edu](mailto:purzer@purdue.edu)

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# THE HONEYCOMB OF ENGINEERING

Version 1.0

Senay Purzer

Purdue University

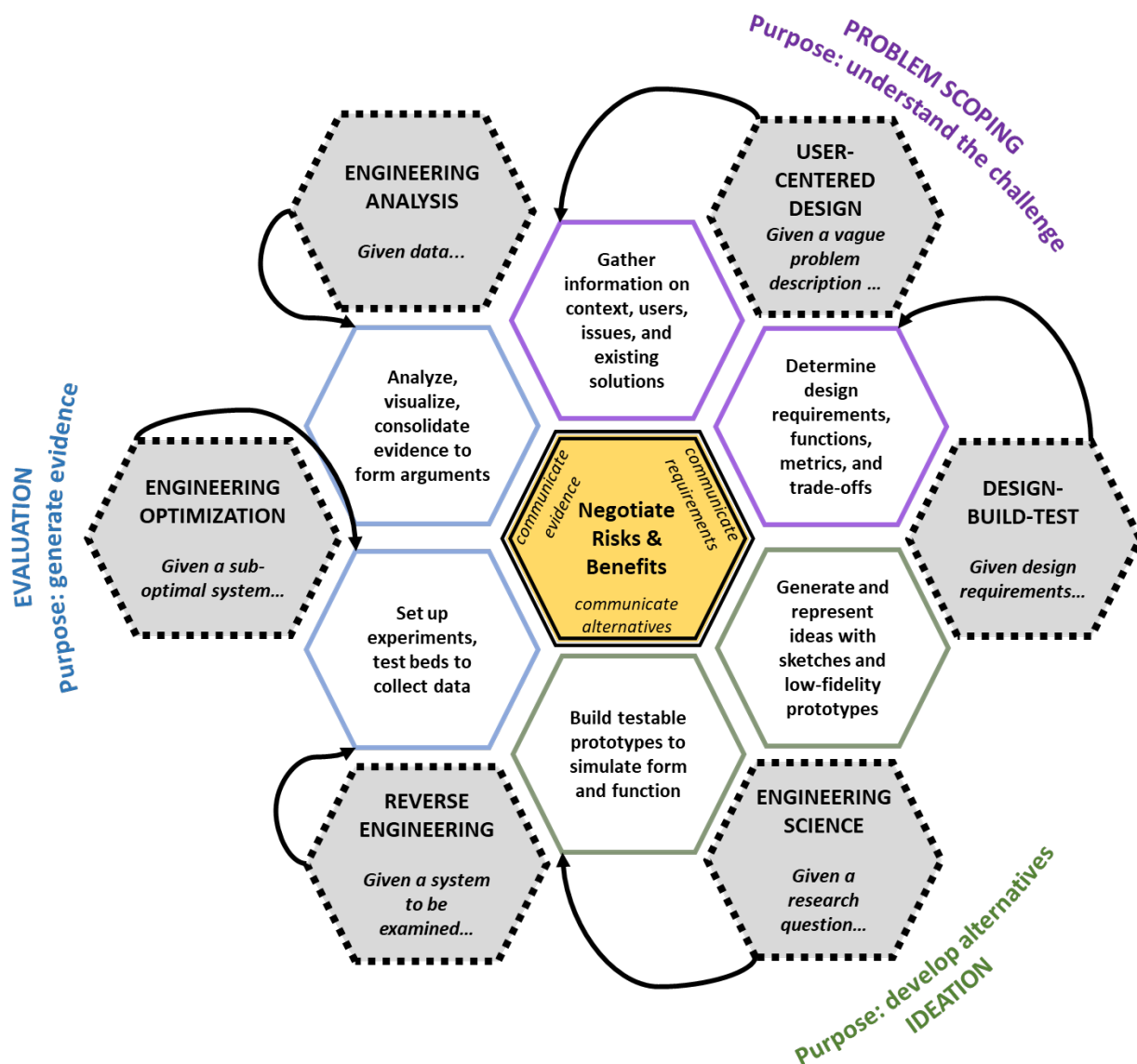
## **Abstract**

The Honeycomb of Engineering is a framework that outlines six type of engineering inquiries. The flexible nature of the design process is adapted to guiding different inquiries by highlighting key cells of the honeycomb. With a honeycomb representation, this framework also centers negotiation of risks and benefits at the center of the design process and enables iteration through communication and reflection.

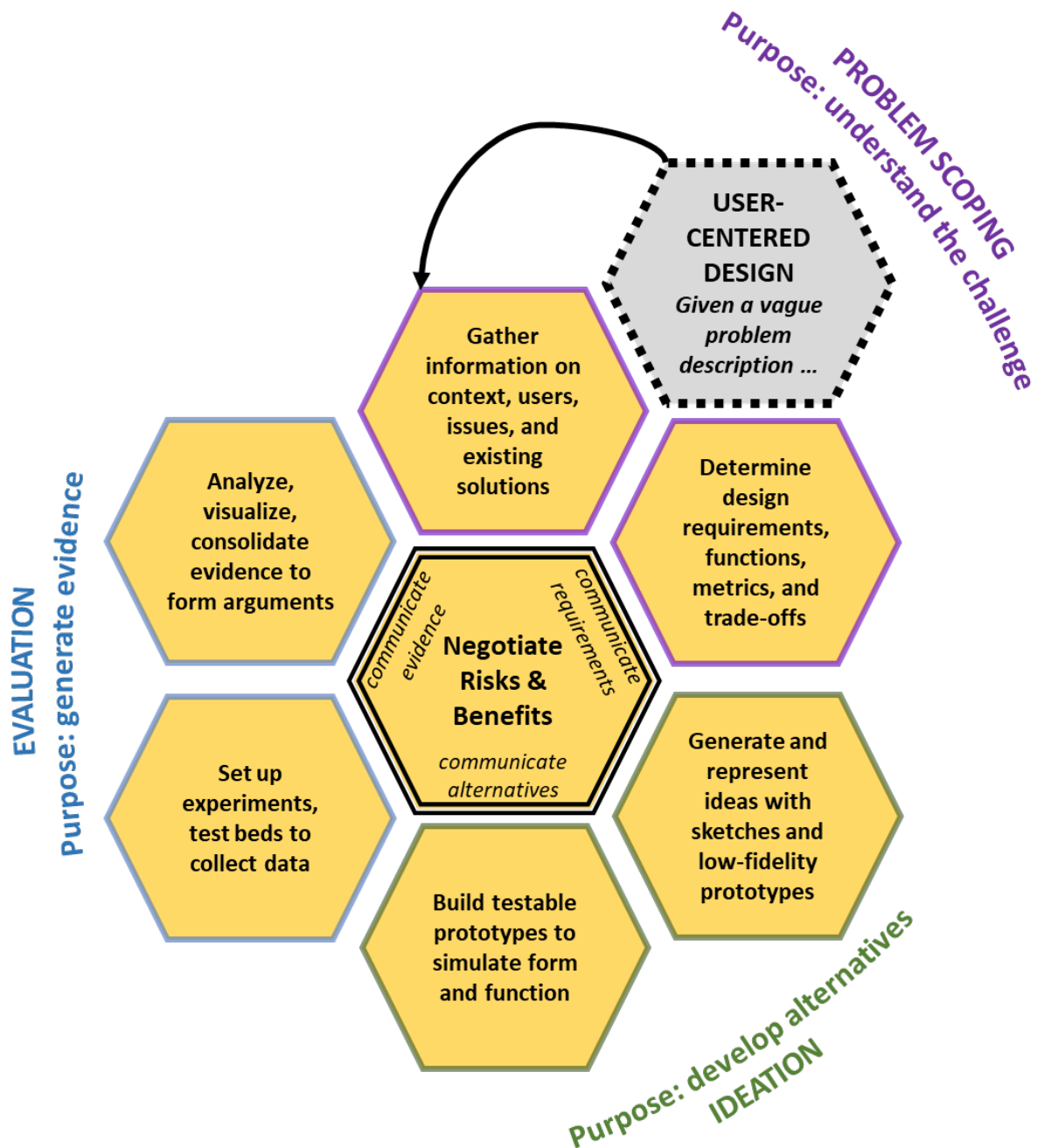
<https://docs.lib.purdue.edu/eneoer/2>

## Engineering Inquiries

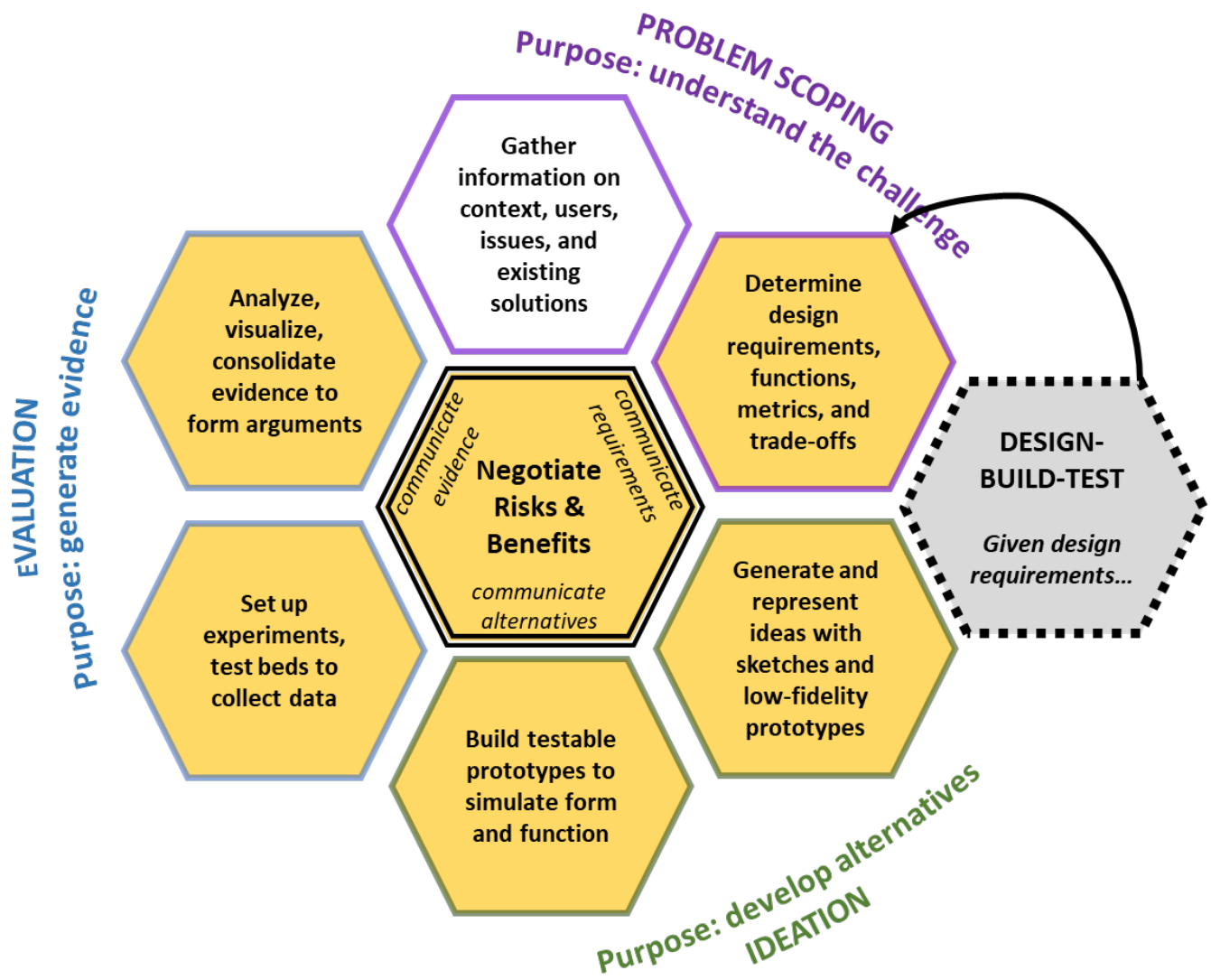
1. User-centered design
2. Design-build-test
3. Engineering science
4. Engineering optimization
5. Engineering analysis
6. Reverse engineering



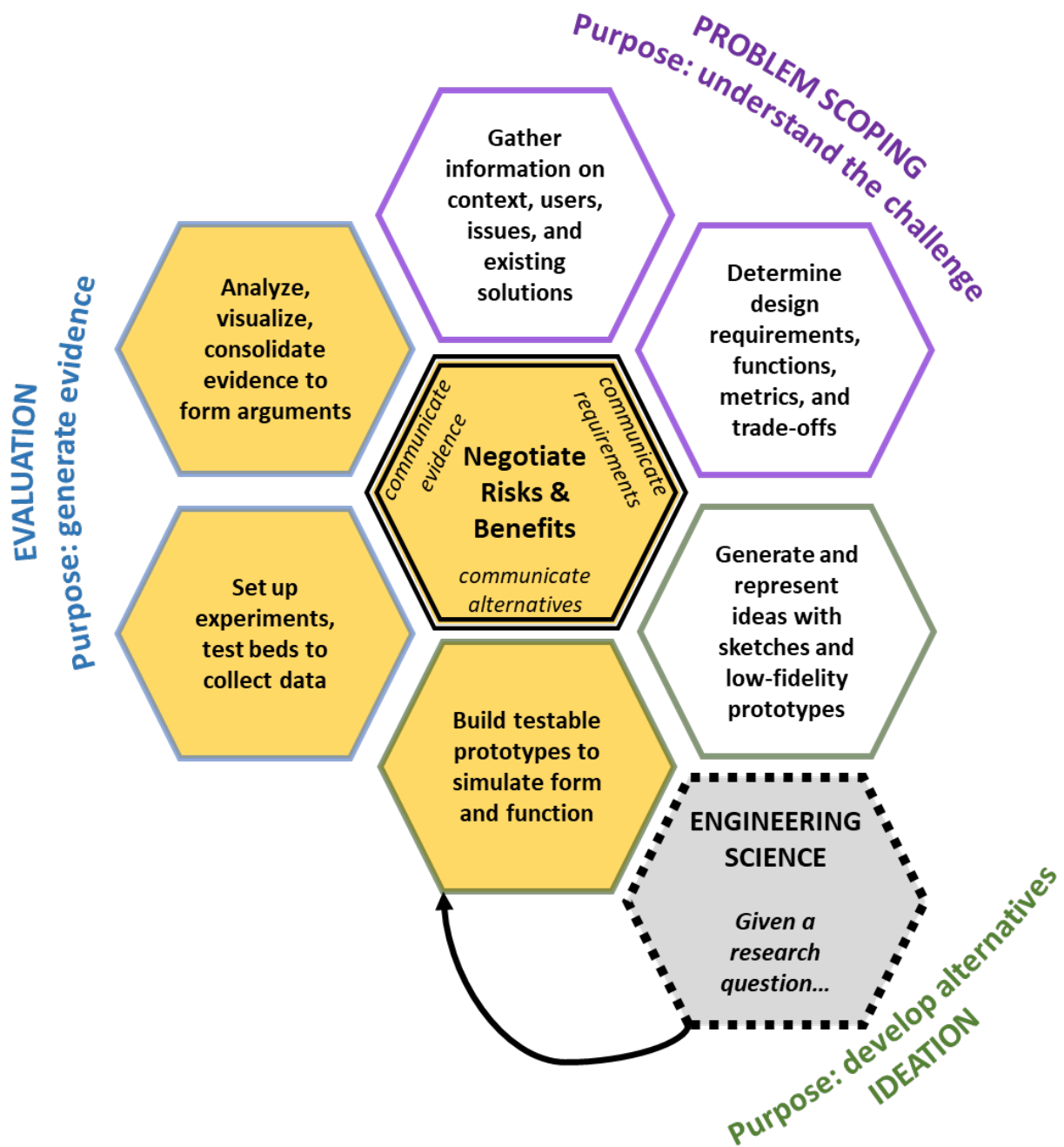
## USER-CENTERED DESIGN (UCD)



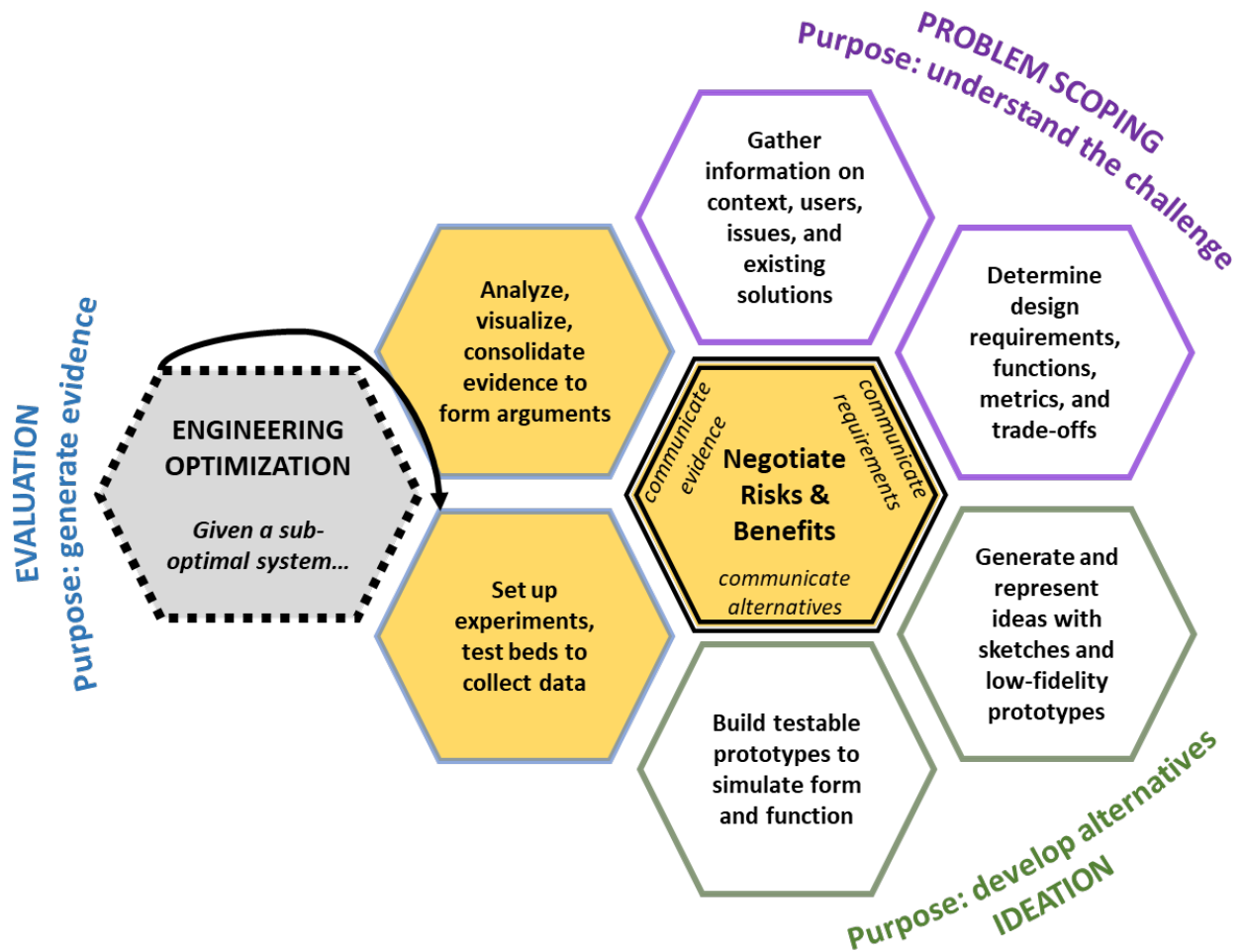
## DESIGN-BUILD-TEST (DBT)



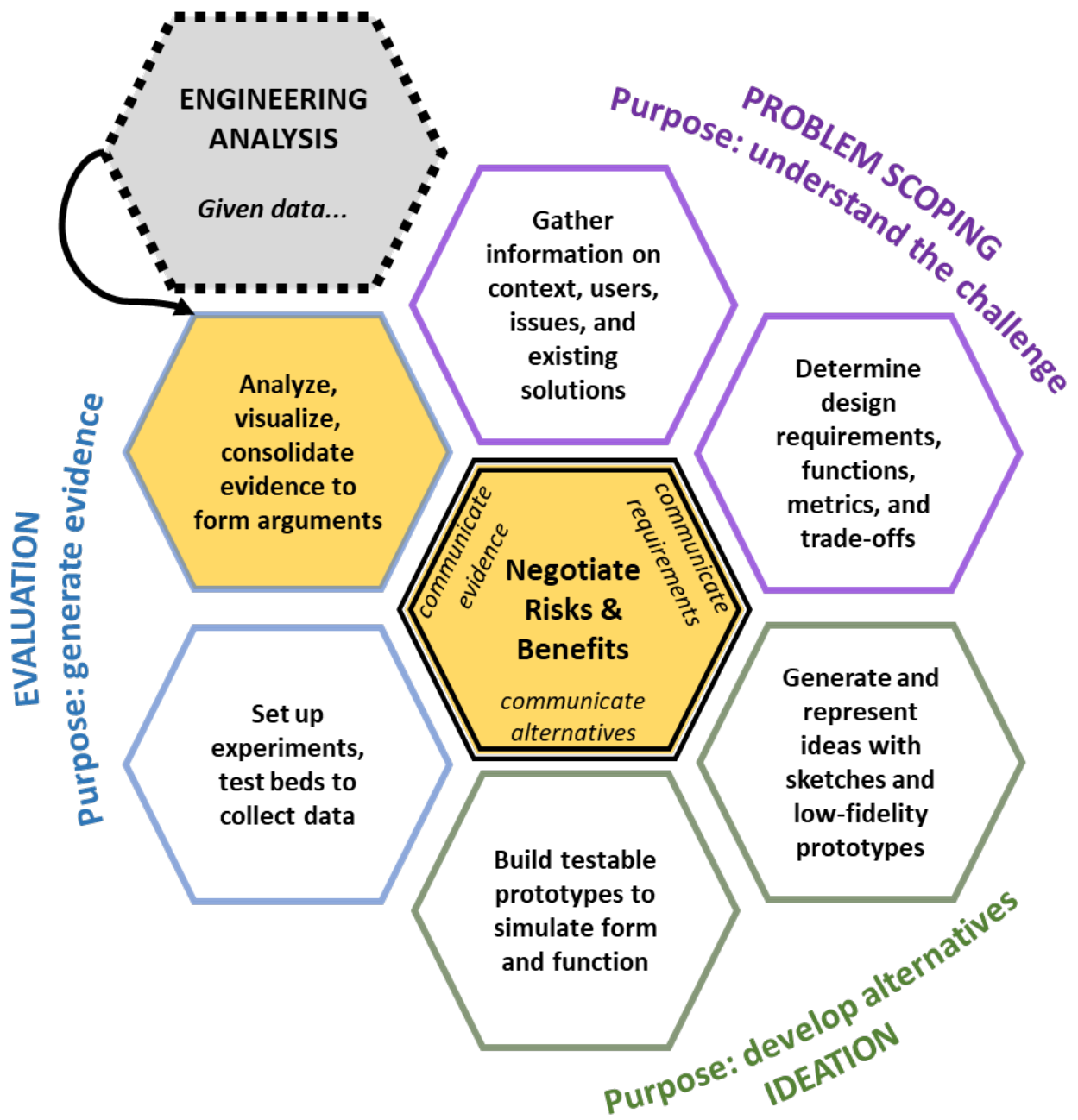
## ENGINEERING SCIENCE



## ENGINEERING OPTIMIZATION



## ENGINEERING ANALYSIS





## REVERSE ENGINEERING

